

Therefore, having thus described the invention, at least the following is claimed.

- 1 1. A toilet bowl cleaner comprising:
- 2 a surfactant; and
- an effervescent system including an acid, wherein the effervescent system
- 4 produces a significant level of foam in a toilet bowl; and
- wherein the cleaner has a pH from approximately 1.6 to approximately 2.2.
- 1 2. The composition of claim 1, wherein the effervescent system further comprises a
- 2 hypochlorite generator.
- 1 3. The composition of claim 1, wherein the acid comprises:
- 2 sulfamic acid; and
- 3 sodium bisulfate.
- 1 4. The composition of claim 2, wherein the hypochlorite generator comprises from
- 2 approximately 0.1% to approximately 20% by weight of the composition.
- The composition of claim 2, wherein the hypochlorite generator is chosen from at
- 2 least one of: chlorinated isocyanurates, alkali metal hypochlorites, and alkaline earth
- 3 metal hypochlorites.
- 1 6. The composition of claim 4, wherein the <u>chlorinated isocyanurate</u> is
- 2 dichloroisocyanurate.

- The composition of claim 4, wherein the alkali metal hypochlorite is chosen from 1 7.
- at least one of: lithium hypochlorite, magnesium hypochlorite, and calcium hypochlorite. 2
- The composition of claim 1, wherein the effervescent system comprises from 8. 1
- approximately 20% to approximately 90% by weight of the composition. 2
- The composition of claim 1, wherein the effervescent system further comprises: 9. 1
- 2 an alkali metal carbonate; and
- 3 an acid.
- The composition of claim 9, wherein the alkali metal carbonate is chosen from: 1 10.
- sodium carbonate, sodium bicarbonate, potassium carbonate, and potassium bicarbonate. 2
- The composition of claim 9, wherein the acid is chosen from at least one of: 1 11.
- citric; maleic; fumaric; adipic; potassium phosphate; sodium phosphate, monobasic; 2
- oxalic; lactic; sulfamic; tataric; sodium bisulfite; sodium pyrophosphate; and potassium 3
- 4 pyrophosphate.
- The composition of claim 1, wherein the level of foam is approximately one inch 1 12.
- above a water line in the toilet bowl. 2
- The composition of claim 1, further comprising at least-one-of-1 13.
- 2 an enzyme;
- a binder; 3
- a lubricant; and 4
- 5 a fragrance.

- 1 14. The composition of claim 13, wherein the surfactant is chosen from at least one
- of: alklyated, sulfonated diphenyl oxide; disodium salt; sodium lauryl sulphate; and alkyl
- 3 benzene sulfonates.
- 1 15. The composition of claim 13, wherein the surfactant comprises a mixture of a
- 2 C_{12-20} ethoxylated alcohol and a sodium C_{14-16} olefin sulfonate.
- 1 16. The composition of claim 13, wherein the surfactant comprises approximately
- 2 0.1% to approximately 5% by weight of the composition.
- 1 17. The composition of claim 13, wherein the binder comprises up to approximately
- 2 20% by weight of the composition.
- 1 18. The composition of claim 13, wherein the binder is chosen from at least one of:
- 2 polyethylene glycol, sorbitol, maltodextrin, and sugars.
- 1 19. The composition of claim 13, wherein the <u>lubricant</u> comprises up to
- 2 approximately 10% by weight of the composition.
- 1 20. The composition of claim 13, wherein the lubricant is chosen from at least one of:
- 2 sodium benzoate, stearates, mineral oil, silicates, and algenic acid.
- 1 21. The composition of claim 13, wherein the enzyme comprises from approximately
- 2 0.1% to approximately 1.25% by weight of the composition.

- 1 22. The composition of claim 13, wherein the enzyme is chosen from at least one of: a
- 2 cellulose, a protease, and a <u>lipase</u>.
- 1 23. The composition of claim 13, wherein the enzyme is chosen from at least one of:
- 2 endo-cellulose, exo-cellulose, cellobiase, xylanese, pentosanose, polygalacturonese, and
- 3 beta-glucanase.

- 1 24. A method of producing a toilet bowl cleaner, comprising:
- 2 blending starting materials; and
- forming an effervescent tablet from the starting materials.
- 1 25. The method of claim 24, wherein the starting materials comprise:
- 2 a surfactant; and
- an effervescent system including an acid,
- wherein the starting materials have a pH from approximately 1.6 to approximately
- 5 2.2.
- 1 26. The method of claim 24, wherein the starting materials further comprise at least
- 2 one of:
- 3 a binder; and
- 4 a fragrance.
- 1 27. The method of claim 24, further comprising blending a lubricant into the starting
- 2 materials.
- 1 28. The method of claim 24, further comprising packaging the tablet in a moisture-
- 2 resistant pouch.

1	29.	The method of producing a toilet bowl cleaner, comprising:
2		blending starting materials comprising
3		a surfactant and
4		an effervescent system including an acid,
5		wherein the starting materials have a pH from approximately 1.6 to
6	appro	eximately 2.2;
7		blending a lubricant into the blended starting materials;
8		compacting and milling the blended lubricant and starting materials into granules;
9		classifying the granules by size; and
10		packaging the granules of a desired size into moisture-resistant packages.